



# Fats and Oils: Oilseed Crashings, Production, Consumption and Stocks

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## Highlights

**November 2021** contained 30 days.

**December 2021** contained 31 days.

**Soybeans crushed** for crude oil was 5.95 million tons (198 million bushels) in December 2021, compared with 5.72 million tons (191 million bushels) in November 2021 and 5.79 million tons (193 million bushels) in December 2020. Crude oil produced was 2.32 billion pounds up 4 percent from November 2021 and up 4 percent from December 2020. Soybean once refined oil production at 1.64 billion pounds during December 2021 decreased 1 percent from November 2021 but increased 4 percent from December 2020.

**Canola seeds crushed** for crude oil was 176,931 tons in December 2021, compared with 160,197 tons in November 2021 and 215,502 tons in December 2020. Canola crude oil produced was 141 million pounds, up 12 percent from November 2021 but down 20 percent from December 2020. Canola once refined oil production, at 148 million pounds during December 2021, was up 6 percent from November 2021 and up 3 percent from December 2020.

**Cottonseed once refined** oil production, at 53.1 million pounds during December 2021, was up 64 percent from November 2021 and up 53 percent from December 2020.

**Edible tallow** production was 66.9 million pounds during December 2021, down 23 percent from November 2021 and down 9 percent from December 2020. Inedible tallow production was 286 million pounds during December 2021, down 24 percent from November 2021 but up 8 percent from December 2020. Technical tallow production was 104 million pounds during December 2021, down 17 percent from November 2021 but up 22 percent from December 2020. Choice white grease production, at 123 million pounds during December 2021, decreased 5 percent from November 2021 but increased 12 percent from December 2020.

# Soybean Crushing, Production, Consumption and Stocks – United States: December 2021 with Comparisons

Item	December 2020	November 2021	December 2021
<b>Crush</b>			
Soybeans crushed..... tons	5,794,233	5,717,943	5,947,222
Crude oil produced.....1,000 pounds	2,233,486	2,235,370	2,324,183
Cake and meal produced..... tons	4,235,822	4,164,959	4,322,245
For animal feed..... tons	4,190,556	4,115,130	4,268,957
For edible protein products..... tons	45,266	49,829	53,288
Millfeed produced..... tons	305,109	291,811	307,307
<b>Refine</b>			
Crude oil processed in refining.....1,000 pounds	1,614,330	1,701,596	1,673,573
Once refined oil produced.....1,000 pounds	1,576,008	1,663,486	1,640,109
<b>Consumption</b>			
Crude oil removed for inedible use in processing.....1,000 pounds	148,651	155,107	177,666
Once refined oil removed for use in processing.....1,000 pounds	1,614,446	1,625,636	1,677,093
Removed for edible use in processing.....1,000 pounds	1,118,660	1,201,284	1,226,483
Removed for inedible use in processing.....1,000 pounds	495,786	424,352	450,610
<b>Stocks</b>			
Cake and meal on hand end of month..... tons	308,933	333,525	372,832
Millfeed on hand end of month..... tons	50,460	42,087	38,477
Crude oil on hand end of month.....1,000 pounds	1,717,305	1,940,772	2,035,694
Crusher.....1,000 pounds	781,381	937,363	954,641
Refiner.....1,000 pounds	277,490	338,069	341,872
Offsite.....1,000 pounds	658,434	665,340	739,181
Once refined oil on hand end of month.....1,000 pounds	393,481	465,191	430,197

## Soybean Crushing – Regional: December 2021 with Comparisons

Region	Soybeans crushed		
	December 2020	November 2021	December 2021
	(tons)	(tons)	(tons)
Illinois .....	676,653	667,542	690,990
Iowa.....	1,206,389	1,195,092	1,224,279
North and East <sup>1</sup> .....	1,286,949	1,284,894	1,340,409
North Central <sup>2</sup> .....	932,895	938,426	988,790
South, West and Pacific <sup>3</sup> .....	726,266	685,243	686,568
West Central <sup>4</sup> .....	965,081	946,746	1,016,186
Region	Crude oil produced		
	December 2020	November 2021	December 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	256,308	258,905	266,247
Iowa.....	479,689	466,018	479,965
North and East <sup>1</sup> .....	496,703	497,334	513,178
North Central <sup>2</sup> .....	355,533	367,976	388,266
South, West and Pacific <sup>3</sup> .....	272,543	262,298	266,050
West Central <sup>4</sup> .....	372,710	382,839	410,477
Region	Crude oil stocks at crusher		
	December 2020	November 2021	December 2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois .....	97,208	130,224	111,914
Iowa.....	131,349	142,265	152,785
North and East <sup>1</sup> .....	191,111	257,434	276,807
North Central <sup>2</sup> .....	195,616	192,590	214,737
South, West and Pacific <sup>3</sup> .....	53,892	71,627	62,900
West Central <sup>4</sup> .....	112,205	143,223	135,498
Region	Cake and meal produced		
	December 2020	November 2021	December 2021
	(tons)	(tons)	(tons)
Illinois .....	479,154	479,210	489,734
Iowa.....	884,343	870,604	896,068
North and East <sup>1</sup> .....	947,899	939,348	973,831
North Central <sup>2</sup> .....	695,890	688,681	722,433
South, West and Pacific <sup>3</sup> .....	524,963	490,266	495,221
West Central <sup>4</sup> .....	703,573	696,850	744,958
Region	Cake and meal stocks		
	December 2020	November 2021	December 2021
	(tons)	(tons)	(tons)
Illinois .....	59,441	72,108	67,919
Iowa.....	35,518	48,377	50,962
North and East <sup>1</sup> .....	95,399	104,593	105,010
North Central <sup>2</sup> .....	39,779	40,451	58,676
South, West and Pacific <sup>3</sup> .....	21,579	25,209	31,308
West Central <sup>4</sup> .....	57,217	42,787	58,957

<sup>1</sup> North and East includes Indiana, Kentucky, Maryland, Ohio, Pennsylvania and Virginia.

<sup>2</sup> North Central includes Michigan, Minnesota, North Dakota and South Dakota.

<sup>3</sup> South, West, and Pacific includes Alabama, Arkansas, California, Georgia, Louisiana, Mississippi, North Carolina and South Carolina.

<sup>4</sup> West Central includes Kansas, Missouri and Nebraska.

**Selected Oilseed Crushing, Production, Consumption and Stocks – United States: December 2021  
with Comparisons**

Item	December 2020	November 2021	December 2021
<b>Canola</b>			
Crush			
Seeds crushed..... tons	215,502	160,197	176,931
Crude oil produced.....1,000 pounds	176,692	125,126	140,696
Cake and meal produced..... tons	118,867	93,909	102,961
Refine			
Crude oil processed in refining.....1,000 pounds	148,439	144,298	152,553
Once refined oil produced.....1,000 pounds	143,441	139,918	148,163
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	164,192	141,559	143,856
Removed for edible use in processing.....1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Stocks			
Cake and meal on hand end of month..... tons	32,636	37,101	(D)
Crude oil on hand end of month.....1,000 pounds	66,052	39,882	39,951
Once refined oil on hand end of month.....1,000 pounds	98,555	88,870	99,220
<b>Cottonseed</b>			
Crush			
Seeds crushed..... tons	158,998	135,480	147,664
Crude oil produced.....1,000 pounds	42,474	35,172	41,365
Cake and meal produced..... tons	69,927	58,686	62,493
Refine			
Crude oil processed in refining.....1,000 pounds	35,697	33,140	54,528
Once refined oil produced.....1,000 pounds	34,654	32,280	53,078
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	44,584	37,695	46,222
Removed for edible use in processing.....1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Stocks			
Cake and meal on hand end of month..... tons	15,677	40,931	33,667
Crude oil on hand end of month.....1,000 pounds	27,085	(D)	(D)
Once refined oil on hand end of month.....1,000 pounds	24,337	15,901	23,275
<b>Coconut</b>			
Refine			
Crude oil processed in refining.....1,000 pounds	(D)	(D)	(D)
Once refined oil produced.....1,000 pounds	(D)	(D)	(D)
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	54,241	59,310	67,083
Removed for edible use in processing.....1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Stocks			
Crude oil on hand end of month.....1,000 pounds	65,241	83,707	78,947
Once refined oil on hand end of month.....1,000 pounds	57,182	(D)	(D)
<b>Corn</b>			
Crush			
Crude oil produced.....1,000 pounds	170,910	150,429	151,431
Refine			
Crude oil processed in refining.....1,000 pounds	164,340	(D)	(D)
Once refined oil produced.....1,000 pounds	161,920	(D)	(D)
Consumption			
Crude oil removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing.....1,000 pounds	(S)	(D)	(D)
Removed for edible use in processing.....1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing.....1,000 pounds	(D)	(D)	(D)
Stocks			
Crude oil on hand end of month.....1,000 pounds	61,020	81,351	89,813
Once refined oil on hand end of month.....1,000 pounds	78,915	71,515	77,457

See footnote(s) at end of table.

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**Selected Oilseed Crushing, Production, Consumption and Stocks – United States: December 2021  
with Comparisons (continued)**

Item	December 2020	November 2021	December 2021
<b>Palm kernel</b>			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	50,062	37,832	39,924
Removed for edible use in processing ..... 1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing..... 1,000 pounds	(D)	(D)	(D)
Stocks			
Once refined oil on hand end of month..... 1,000 pounds	74,883	70,559	66,931
<b>Palm</b>			
Consumption			
Once refined oil removed for use in processing..... 1,000 pounds	230,568	236,388	212,943
Removed for edible use in processing ..... 1,000 pounds	224,958	224,788	208,213
Removed for inedible use in processing..... 1,000 pounds	5,610	11,600	4,730
Stocks			
Once refined oil on hand end of month..... 1,000 pounds	261,988	267,420	305,163
<b>Peanut</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	26,560	26,861	27,623
Once refined oil produced..... 1,000 pounds	25,230	25,732	26,667
Consumption			
Crude oil removed for inedible use in processing ..... 1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing..... 1,000 pounds	24,576	36,867	29,323
Removed for edible use in processing ..... 1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing..... 1,000 pounds	(D)	(D)	(D)
Stocks			
Crude oil on hand end of month..... 1,000 pounds	10,684	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
<b>Safflower</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	3,276	(D)	(D)
Once refined oil produced..... 1,000 pounds	3,334	(D)	(D)
Consumption			
Crude oil removed for inedible use in processing ..... 1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing..... 1,000 pounds	5,486	(D)	6,035
Removed for edible use in processing ..... 1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing..... 1,000 pounds	(D)	(D)	(D)
Stocks			
Crude oil on hand end of month..... 1,000 pounds	6,685	(D)	1,988
Once refined oil on hand end of month..... 1,000 pounds	1,285	(D)	(D)
<b>Sunflower</b>			
Refine			
Crude oil processed in refining..... 1,000 pounds	48,107	47,946	40,710
Once refined oil produced..... 1,000 pounds	47,935	46,289	38,723
Consumption			
Crude oil removed for inedible use in processing ..... 1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing..... 1,000 pounds	39,278	39,515	36,609
Removed for edible use in processing ..... 1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing..... 1,000 pounds	(D)	(D)	(D)
Stocks			
Crude oil on hand end of month..... 1,000 pounds	55,877	38,099	(D)
Once refined oil on hand end of month..... 1,000 pounds	23,557	25,113	22,222
<b>Vegetable foots, raw and acidulated</b>			
Refine			
Oil produced ..... 1,000 pounds	(D)	(D)	(D)
Consumption			
Oil removed for inedible use in processing..... 1,000 pounds	(D)	(D)	(D)
Stocks			
Oil on hand end of month ..... 1,000 pounds	(D)	(D)	(D)

(D) Withheld to avoid disclosing data for individual operations.

(S) Insufficient number of reports to establish an estimate.

# Animal Fats and Oils Production, Consumption and Stocks – United States: December 2021 with Comparisons

Item	December 2020 (1,000 pounds)	November 2021 (1,000 pounds)	December 2021 (1,000 pounds)
<b>Choice white grease</b>			
Production.....	110,632	129,988	123,435
Removed for inedible use .....	114,200	127,668	126,360
Stocks on hand end of month .....	9,577	9,239	6,315
<b>Feather meal</b>			
Production.....	96,594	80,324	77,684
Stocks on hand end of month .....	24,797	20,916	13,193
<b>Lard</b>			
Production.....	24,185	34,175	30,416
Removed for use in processing .....	22,969	37,328	31,368
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month .....	8,599	4,725	4,950
<b>Meat meal, meat and bone meal, and dry rendered tankage</b>			
Production.....	440,433	520,433	494,499
Stocks on hand end of month .....	68,558	103,456	81,910
<b>Other grease</b>			
Production.....	38,730	38,213	45,421
Removed for inedible use in processing .....	39,049	44,449	43,943
Stocks on hand end of month .....	(D)	(D)	(D)
<b>Poultry fats</b>			
Production.....	195,729	167,555	163,485
Removed for inedible use in processing .....	191,565	167,924	169,826
Stocks on hand end of month .....	32,605	36,031	29,689
<b>Poultry by-product meals</b>			
Production.....	268,235	280,759	271,214
Stocks on hand end of month .....	44,281	115,846	100,954
<b>Tallow, edible</b>			
Production.....	73,204	86,896	66,873
Removed for use in processing .....	72,403	91,676	67,586
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month .....	(D)	15,860	20,536
<b>Tallow, inedible</b>			
Production.....	264,828	377,789	285,505
Removed for inedible use in processing .....	270,562	383,668	304,995
Stocks on hand end of month .....	90,847	(D)	(D)
<b>Tallow, technical</b>			
Production.....	84,720	125,128	103,539
Removed for inedible use in processing .....	85,516	122,514	105,968
Stocks on hand end of month .....	(D)	(D)	(D)
<b>Yellow grease</b>			
Production.....	179,928	187,154	171,389
Removed for inedible use in processing .....	178,621	220,539	178,984
Stocks on hand end of month .....	88,033	98,756	90,985

(D) Withheld to avoid disclosing data for individual operations.

## Statistical Methodology

**Survey Procedures:** *Fats and Oils: Oilseed Crushings, Production, Consumption and Stocks* is part of the Current Agricultural Industrial Reports (CAIR) program. CAIR reports are administered under NASS's Census of Agriculture program. Response to CAIR surveys are required by law (Title 7, U.S. Code). Animal and vegetable fats and oils data are collected from all known facilities that crush, refine or render. Crushing facilities include processors that use either solvent extraction or continuous screw press.

The census universe was determined during operation profile interviews which were completed for each potential facility to identify the presence of rendering, oilseeds crushing, and crude oil refining in 2014.

In the Animal and Vegetable Fats and Oils survey questionnaire, facilities are asked for previous calendar month data on oilseed crushing, crude oil production, once refined oil production, rendering production, and end of month stocks. Facilities are mailed questionnaires with the options of completing the survey by mail or by Electronic Data Reporting (EDR). For surveys not received in a reasonable amount of time, telephone follow-up is conducted.

**Estimating Procedures:** Imputation is done for operations with non-response by using historical data and current data relationships. Data for reporting firms are added to estimates for non-reporting firms to obtain National totals.

**Revision Policy:** Data are revised the following month based on late reports or corrected data. Final figures are published in the annual summary of the following year.

**Reliability:** Survey data are based on a census of all known facilities and therefore, have no sampling variability. Monthly data can vary due to different firms reporting month to month. Survey data are also subject to non-sampling errors such as omissions and mistakes in reporting and in processing the data. While these errors cannot be measured directly, they are minimized by carefully reviewing all reported data for consistency and reasonableness.

## Information Contacts

Listed below are the commodity statisticians in the Crops Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to [nass@usda.gov](mailto:nass@usda.gov)

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David Colwell – Current Agricultural Industrial Reports.....	(202) 720-8800
Michelle Harder – Barley, County Estimates, Hay .....	(202) 690-8533
James Johanson – Rye, Wheat.....	(202) 720-8068
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- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist [notifications@usda-esmis.library.cornell.edu](mailto:notifications@usda-esmis.library.cornell.edu) in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: [nass@usda.gov](mailto:nass@usda.gov).

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